



illustrative photo

MAIN FEATURES

- Integrated Web Server
- Integrated LCD display and keyboard
- Remote monitoring via LAN
- Advanced battery management including battery monitoring and testing

APPLICATIONS

- Power supply systems for telecommunications, control, security and industrial technology

DESCRIPTION

The DCS-100 system control unit is the optimum solution for all power ranges from small to large power systems thanks to easy expandability via CAN or RS485 bus and additional modules.

Battery management including battery testing and life estimation as well as rectifier functions including redundancy control make it easy to monitor system availability and plan site work in a cost-effective way.

The system control unit also provides various remote monitoring options via potential-free relay contacts, LAN / Ethernet, SNMP or Modbus. The integrated web server provides a user-friendly interface for both local and remote surveillance and system management with a standard web browser.

TECHNICAL SPECIFICATION

Functions	
System	Measurement / detection and mains failure alarm / phase
	Genset features to reduce fuel consumption
	Configurable logs and event history
	For voltage systems 24/48/60/110/220 Vdc
Batteries	Float charging with temperature compensation / Boost charging and equalizing charging
	Battery protection against deep discharge LVD, charge state estimation
	Backup time estimation, lifetime estimation, automatic battery test
	Symmetry monitoring for voltage and current
	Battery blocks voltage control (optional)
	Charge current limitation
Rectifier / converter	Control and information about rectifiers / converters
	Progressive start-up of rectifiers / System soft start
	Mode to increase overall efficiency and module cycling
	Redundancy and performance capacity control
Features	
Connection of rectifiers	Digital, CAN bus
Connection of additional modules	Digital, CAN bus / RS485
Number of rectifiers	Max. 24
Digital input	4 (standard)
Output / alarm relay	6 (standard)
Temperature	1 (standard)
Display	Graphic display
Monitoring	DCS100: USB
	DCS100-E: LAN / Web browser / Modbus
languages	Slovak / English / (possibility to add language as required)
User interface	
Local user interface	4 x LED, LCD display, keyboard, buzzer, MODBUS RTU
Remote monitoring	WEB interface - multiple levels of access, remote and local update of SW and settings, MODBUS TCP
General characteristics	
Voltage range	18 to 300 V _{DC} (according to DC0 / DC1 / DC2 / DC3 configuration)
Input power	Max. 10 W
Dimensions (H x W x D)	40,0 x 107 x 255 mm
Safety	STN EN 60950-1
EMI	STN EN 55 023, class B
Cooling	Natural
Operating temperature	-25 up to +70 °C
Relative humidity	Max. 95 % non-condensing